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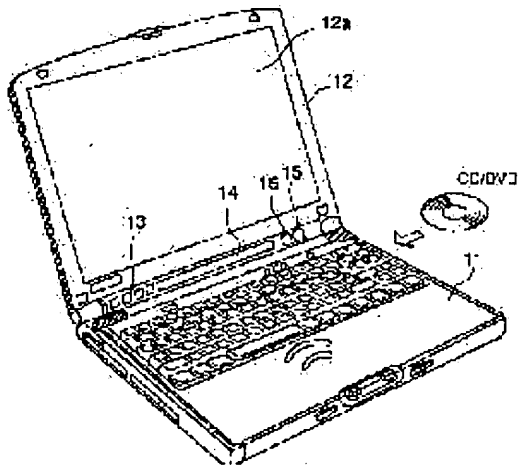
(54) PORTABLE INFORMATION APPARATUS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a portable information apparatus enabling a button operation even if an application to be operated is inactive.

SOLUTION: This portable information apparatus is provided with an operation button 13 for operating an application, a jog device 15 for selecting multiple application programs, a type determination means 52 determining a type of the application program selected by the jog device, and a control means 52-54 displaying a window in the front face and set it to be operated by the operation button, when it is required to display a window for operating the application program whose type is selected on the front face, and holding the display state of the window of the application program and set it to be operated by the operation button, when it is determined not to necessarily display the window on the front face.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the note type personal computer which operates two or more application programs especially about pocket mold information machines and equipment.
[0002]
[Description of the Prior Art] In recent years, it is not based on actuation by the keyboard or the mouse, but the note type personal computer possessing the manual operation button of the dedication for starting the Internet etc. is developed.
[0003] In such a note type personal computer, it is arranged in the location which can be operated also after the manual operation button of dedication has closed the panel, and specific application can be started by one-touch.
[0004] Moreover, in the conventional note type personal computer, two or more application programs can be assigned to each window, and two or more two or more application programs can be started simultaneously.
[0005]
[Problem(s) to be Solved by the Invention] However, in the conventional note type personal computer, when the application program which can define only one actuation to one manual operation button, and is set as the object of actuation was not active (there is no display in a forefront side), there was a problem that it could not be operated.
[0006] That is, in the condition that two or more application programs have started, in spite of operating the manual operation button which can do application program starting ****** in one-touch with much trouble in the conventional note type personal computer to activate a predetermined application program, in order to operate the keyboard and mouse in another location for choosing an application program, there was a problem that excessive actuation of a user was needed.
[0007] This invention is made in view of the above-mentioned actual condition, and also when the application to operate is not active, it aims at offering the pocket mold information machines and equipment which make button grabbing possible.
[0008] Moreover, this invention aims at offering the pocket mold information machines and equipment which can change an application program by assigning the function to start an application program to the manual operation button of dedication, and assigning the function for choosing an application program to different jog equipment from the same usual keyboard, without a user performing excessive actuation.
[0009]
[Means for Solving the Problem] In order to attain the above-mentioned object, therefore, invention of the 1st of this invention The manual operation button for operating an application program, and the jog equipment for choosing two or more application programs, A classification distinction means to distinguish the classification of the application program chosen by said jog equipment, In being what needs to display the window where the application program with which the classification of the

application program distinguished by said classification distinction means was chosen operates on a front face Display said window on a front face, and it considers as the object for actuation of said manual operation button. When it is judged that it is what does not need to display the window where said selected application program operates on a front face They are the pocket mold information machines and equipment characterized by providing the control means which maintains the display condition of the window of said application program, and is made applicable [of said manual operation button] to actuation.

[0010] In addition, the 1st above-mentioned invention also includes the following invention.

[0011] (1) Provide further the table which stores the information which shows whether it is necessary to display on a front face for every application program, and judge whether said control means needs to display the window where the detected application program operates on a front face with reference to said table.

[0012] Moreover, a detection means to detect what the application program started invention of the 2nd of this invention for, A decision means to judge whether it is what needs to display the window where the application program detected by said detection means operates on a front face, When it is judged that it is necessary to display the window where said detected application program operates with said decision means on a front face Display said window on a front face, and it considers as the object for actuation of said manual operation button. When it is judged that it is what does not need to display the window where said selected application program operates on a front face They are the pocket mold information machines and equipment characterized by providing the control means which maintains the display condition of the window of said application program, and is made applicable [of said manual operation button] to actuation.

[0013] In addition, the 2nd above-mentioned invention also includes the following invention (1). Provide further the table which stores the information which shows whether it is necessary to display on a front face for every application program, and judge whether said decision means needs to display the window where the detected application program operates on a front face with reference to said table.

[0014] Furthermore, according to invention of the 3rd of this invention, one application program is chosen among two or more application programs. When it judges whether the window where the selected application program operates is displayed on a forefront side, or there is any need and it is judged that it is necessary to display on a forefront side, while displaying said window on a forefront side Said selected application program is made applicable [of a manual operation button] to actuation. When it is judged that it is not necessary to display on a forefront side, it is the selection approach of the application program in the pocket mold information machines and equipment characterized by maintaining the display condition of said window and considering as the object of said manual operation button.

[0015] In addition, the 3rd above-mentioned invention also includes the following invention.

[0016] (1) Provide further the table which stores the information which shows whether it is necessary to display on a front face for every application program, and decision whether it is necessary to display the window where said selected application program operates on a forefront side should be performed with reference to said table.

[0017] Furthermore, according to invention of the 4th of this invention, it judges whether the application program was started. It judges whether when it is judged that the application program was started, the window where the started application program operates is displayed on a forefront side, or there is any need. When it is judged that it is necessary to display on a forefront side, while displaying said window on a forefront side Said started application program is made applicable [of a manual operation button] to actuation. When it is judged that it is not necessary to display on a forefront side, it is the selection approach of the application program in the pocket mold information machines and equipment characterized by maintaining the display condition of said window and considering as the object of said manual operation button.

[0018] In addition, the 4th above-mentioned invention also contains the following.

[0019] (1) Provide further the table which stores the information which shows whether it is necessary to

display on a front face for every application program, and decision whether the window where said started application program operates is displayed on a forefront side, or there is any need should be performed with reference to said table.
[0020] Furthermore, the manual operation button for invention of the 5th of this invention being prepared in an operational location also in the condition of having closed the Maine display and said Maine display, and performing predetermined processing to an application program, The application program selection means for being prepared in an operational location also in the condition of having closed said Maine display, and choosing two or more application programs, A classification distinction means to distinguish the classification of the application program chosen by said application program selection means, In being what needs to display the window where the application program with which the classification of the application program distinguished by said classification distinction means was chosen operates on a front face Display said window on a front face, and it considers as the object for actuation of said manual operation button. When it is judged that it is what does not need to display the window where said selected application program operates on a front face They are the pocket mold information machines and equipment characterized by providing the control means which maintains the display condition of the window of said application program, and is made applicable [of said manual operation button] to actuation.
[0021]
[Embodiment of the Invention] Hereafter, with reference to a drawing, the note type personal computer concerning the gestalt of operation of this invention is explained.
[0022] First, with reference to drawing 1 and drawing 2 , the basic structure of the note type personal computer concerning the gestalt of 1 operation of this invention is explained.
[0023] The front view of the computer in the condition that drawing 1 opened the display unit, and drawing 2 are the front views of the computer in the condition of having closed the display unit.
[0024] This computer consists of a body 11 of a computer, and a display unit 12.
[0025] Display screen 12a which consists of LCD is included in the display unit 12. The display unit 12 is attached for between a release location and lock out locations to the body 11 of a computer, enabling free rotation.
[0026] The body 11 of a computer has the case of a thin cube type, and the keyboard, the pointing stick, etc. are arranged on the top face.
[0027] A manual operation button 13, the subdisplay (factice LCD) 14, jog equipment 15, and volume-control equipment 16 are formed in the top face of the body 11 of ã computer.
[0028] In addition, jog equipment 15 is arranged near the manual operation button 13 so that it may be easy to operate a user.
[0029] As shown in drawing 2 , these manual operation buttons 13, the subdisplay (factice LCD) 14, jog equipment 15, and volume-control equipment 16 are arranged so that it may be exposed outside also in the condition of having closed the display panel 12.
[0030] Notching is prepared among right-and-left both the hinges of the display-panel 12 lower part, and it consists of gestalten of this operation so that the field by the side of the late rice on body of computer 11 top face (back) may be outside exposed also in the condition of having closed the display panel 12 by this.
[0031] Drawing 3 is drawing showing the subdisplay 14, jog equipment 15, and volume-control equipment 16.
[0032] In this drawing, while information, such as a supply condition of an AC power, an on-off condition of a system, an access condition of a hard disk, a condition of the dc-battery of a note type personal computer, and a mute condition, is shown in the subdisplay 14, text display area 14a is prepared. The various information about which a user should be told is displayed so that this text display area 14a may be described later.
[0033] Drawing 5 is drawing for explaining actuation of jog equipment 15, and the relation of an event. In addition, although the bottom event at the time of moving the projection 31 of the jog switch 15 to the bottom is explained, when projection 15a is moved to an upside, a top event occurs here.

[0034] As shown in this drawing, when the jog switch 15 is moved to a bottom (above) position, an event occurs the bottom (above). And predetermined time, for example, when it continues for 1 second, a bottom (above) continuation event occurs [the condition of having moved the jog switch 15 to the bottom (above) position].
[0035] On the other hand, when a hand is lifted and the jog switch 15 returns to a neutral condition immediately after the event occurred the bottom (above), a return event occurs. Also when similarly it returns to a neutral condition after the bottom (above) continuation event occurred, a return event occurs.
[0036] Moreover, jog equipment 15 is possible also for carrying out a depression, and a depression event generates it in this case. The various events of these jog equipment 15 are detected by the BIOS program, and are passed to an application program.
[0037] Volume-control equipment 16 controls the volume of the voice outputted from a note type personal computer.
[0038] Drawing 4 is drawing showing the detail of a manual operation button 13. As shown in drawing 4 , the manual operation button 13 has rewind button 13a, playback / pause button 13b, earth-switch 13c, and 13d of fast forward buttons.
[0039] Rewind button 13a is for rewinding the music under playback to the music in front of one, when playback / pause button 13b suspends playback of music when a carbon button is pushed during playback of music, and playback, and earth-switch 13c is pushed during playback of music, it is for stopping music, and 13d of fast forward buttons is for fast forwarding the music under playback to the music of one beyond.
[0040] A manual operation button 13 is for operating the object for actuation, and the object for actuation is changed by the program. For example, the objects for actuation may be CD/DVD media and may be digital audio media.
[0041] Moreover, a manual operation button 13 may not be restricted to what was shown in drawing 4 , for example, may be an updating carbon button of WEB etc. That is, a manual operation button 13 operates the object (application program) of actuation.
[0042] In the gestalt of this operation, the object for actuation of a manual operation button 13 can be carried out to the application program which operates not only in an active window but in the background.
[0043] The disk drive which is not illustrated is formed in the right lateral of the body 11 of a computer. This disk drive is equipped with disk media on which CD-ROM and DVD-ROM with which audio data were recorded, the audio, and the video data were recorded, such as CD-ROM and DVD-ROM, as an object for playback.
[0044] Drawing 6 is drawing showing the outline configuration of the note type personal computer concerning the gestalt of this operation.
[0045] As shown in this drawing, in a bus 20, they are CPU21 and BIOS. ROM22, main memory 23, a display controller 24, the keyboard controller 27, CD / DVD player, HDD29, the dc-battery 30, and the power supply section 31 are connected.
[0046] In this drawing, CPU21 manages system-wide control and performs program execution stored in main memory 23.
[0047] BIOS (Basic Input/Output System) ROM22 stores a BIOS program with the role generated from jog equipment 15, such as carrying out event detection.
[0048] Main memory 23 stores the program for realizing processing of the flow chart explained in the gestalt of this operation etc. A control program and an application program for main memory 42 to manage the display control of OS (Operating System) and the subdisplay 14 are stored.
[0049] A display controller 24 performs the display control of the Maine display 25 and the subdisplay 26.
[0050] The Maine display 25 is a display which becomes main [a note type personal computer], and is equivalent to display screen 12a shown in drawing 1 .
[0051] The subdisplay 26 is formed independently [the Maine display 25], and is equivalent to the

subdisplay 14 shown in drawing 1 .
[0052] A keyboard controller (27) is for performing control of a manual operation button 13, keyboard 27a, and jog equipment 15.
[0053] CD / DVD player 28 reproduces CD/DVD media.
[0054] HDD29 is for storing the application program developed by main memory 23.
[0055] A dc-battery 30 supplies a power source to each element of a note type personal computer, when the power source is not supplied from a power supply section 31. In addition, even if this dc-battery 30 and the power from a power source 31 are the cases where the power source of a note type personal computer is in an OFF state and sleeping, the element which manages the display control of the subdisplay 26 is supplied, and the display control of the subdisplay 26 is maintained.
[0056] Drawing 7 is the functional block diagram of the note type personal computer concerning the gestalt of 1 operation of this invention.
[0057] As shown in this drawing, the note type personal computer of the gestalt of this operation possesses the application program selection detecting element 51, the application program classification decision section 52, the setting-out section 53 for a manual operation button, and the window control section 54.
[0058] The application program selection detecting element 51 detects that the application program displayed by the jog measure 15 on the subdisplay 14 was chosen.
[0059] Drawing 9 is drawing showing the title of the application program displayed on the subdisplay 14. As shown in this drawing, the title name of the application displayed on the subdisplay 14 also has what is registered beforehand, and the thing registered by the user.
[0060] Here, it is 1.CD/DVD as a title name. 2. digital audio 3. television Application name specified by 4. user Application name specified by 5. user 6. mail 7. Internet shall be registered. With jog equipment 15, the application corresponding to these title names is set as the motive object.
[0061] Specifically, the application program selection detecting element 51 detects the application program corresponding to the title of the application program displayed on the subdisplay 14 at the time of detecting the depression event generated from jog equipment 15, and a depression event being detected.
[0062] The application program classification decision section 52 distinguishes the classification of the application program detected by the application program selection detecting element 51, and judges whether it is necessary to carry out active [of the window where this distinguished application program operates] (for it to display on a forefront side).
[0063] For example, when the selected application program is the Internet browser, the window of the Internet browser is indicated by active, and in the case of an MP3 player or a CD/DVD player, a window is judged as it does not activate.
[0064] The application which needs the active display of a window based on the classification of the application program by the application program classification decision section 52 may be beforehand set up as a default, and you may make it customize it by the user.
[0065] Drawing 10 is drawing showing the table which set up beforehand whether it would indicate by active. In the table shown in this drawing, if it is not necessary to activate the application program for CD/DVD playback, and the application program for digital audio playback, they will be set up, and if it is necessary to indicate by active about the application program for television, an e-mail application program, and the Internet browser, they are set up.
[0066] The application program classification decision section 52 judges whether with reference to the table shown in drawing 10 , it is necessary to activate the selected application program.
[0067] The setting-out section 53 for a manual operation button sets up the object for actuation from a manual operation button 13. That is, the application program detected by the application program selection detecting element 51 is made applicable [of a manual operation button 13] to actuation.
[0068] The window control section 54 activates the window of the corresponding application program, when it is judged to be a required application program to activate by the application program classification decision section 52.

[0069] Next, actuation of the note type personal computer concerning the gestalt of operation of this invention is explained with reference to the flow chart of drawing 8 .
[0070] First, decision whether the application program displayed on the subdisplay 14 by jog equipment 15 was chosen by the application program selection detecting element 51 is performed (S1).
[0071] In S1, when it is judged that the application program was chosen, decision whether it is necessary to activate the window of the selected application program is performed (S2).
[0072] In S2, when it is judged that it is not necessary to activate the selected application program, the selected application program is set as the object of a manual operation button, leaving the display condition of a window as it was (S3).
[0073] Drawing 11 is drawing for explaining the relation between the active state of a window, and the object of a manual operation button.
[0074] Now, the Internet browser A, the Internet browser B, and the application program for CD/DVD playback assume that it is what is operating on a note type personal computer.
[0075] In this case, if a user chooses the application program for CD/DVD playback, since the application program for CD/DVD playback will not serve as an object more active than the table shown in drawing 10 , the window of the application program for CD/DVD playback is not activated (not displayed on a front face), but is set as the actuation object of a manual operation button 13.
[0076] That is, it becomes possible to enjoy music, such as Background CD, without being interfered with access of the Internet by the Internet browser if it sees from a user. Moreover, actuation becomes possible with a manual operation button 13 to the application program of the window which is not active.
[0077] When it is judged that it is necessary in S2 to activate the selected application program on the other hand, the window of the selected application program is activated and (S4) and the selected application program are made applicable [of a manual operation button 13] to actuation (S5). Drawing 12 is drawing for explaining the relation between the active state of a window, and the object of a manual operation button.
[0078] Now, the Internet browser, an e-mail application program, and the application program for CD/DVD playback assume that it is what is operating on a note type personal computer.
[0079] In this case, if a user chooses the Internet, since the Internet browser will serve as an object more active than the table shown in drawing 10 , the Internet browser is displayed on a forefront side, and it considers as the object of a manual operation button.
[0080] Drawing 13 is drawing showing the flow of the event generated from a manual operation button.
[0081] As shown in this drawing, by establishing the program which realizes the flow chart which showed the event generated from the manual operation button to drawing 8 , based on the classification of a program, the event from a manual operation button can be outputted also to the application program of an inactive window, consequently, according to the note type personal computer of the gestalt of this operation, actuation becomes possible with a manual operation button 13 also to the application program of an inactive window.
[0082] Next, the modification of this invention is explained.
[0083] Drawing 14 is the functional block diagram of the note type personal computer concerning the modification of this invention.
[0084] As shown in this drawing, the note type personal computer concerning this modification possesses the application program startup detecting element 61, the application program classification decision section 62, the setting-out section 63 for a manual operation button, and the window control section 64.
[0085] The application program starting detecting element 61 detects starting of an application program. Here, starting from the start menu of Windows which is the case where application is started from a manual operation button, and OS by Microsoft Corp. is also included in starting of an application program.
[0086] The application program classification distinction section 62 distinguishes the classification of the started application program which was detected by the application program starting detecting

element 61, and judges whether it is necessary to carry out active [of the window where this distinguished application program operates] (for it to display on a forefront side).
[0087] For example, when the selected application program is the Internet browser, the window of the Internet browser is indicated by active, and in the case of an MP3 player or a CD/DVD player, a window is judged as it does not activate.
[0088] The application which needs the active display of a window based on the classification of the application program by the application program classification decision section 52 may be beforehand set up as a default, and you may make it customize it by the user.
[0089] In addition, it judges whether decision whether it indicates by active needs to activate the application program chosen as mentioned above with reference to the table shown in drawing 10 .
[0090] The setting-out section 63 for a manual operation button sets up the object for actuation from a manual operation button 13. That is, the application program detected by the application program selection detecting element 61 is made applicable [of a manual operation button 13] to actuation.
[0091] The window control section 64 activates the window of the corresponding application program, when it is judged to be a required application program to activate by the application program classification decision section 62.
[0092] Next, actuation of the note type personal computer concerning the gestalt of operation of this invention is explained with reference to the flow chart of drawing 15 .
[0093] First, decision whether the application program started by the application program starting detecting element 61 is performed (S11).
[0094] In S11, when it is judged that the application program was started, decision whether it is necessary to activate the window of the started application program is performed (S12).
[0095] In S12, when it is judged that it is not necessary to activate the started application program, the started application program is set as the object of a manual operation button, leaving the display condition of a window as it was (S13).
[0096] When it is judged that it is necessary in S12 to activate the started application program on the other hand, the window of the started application program is activated (S14), and the started application program is made applicable [of a manual operation button 13] to actuation (S15).
[0097] Therefore, since according to the note type personal computer of the gestalt of this operation it determines whether activate the window of the application program concerned based on the classification of the started application program when an application program is started, about what does not have to activate windows, such as a program for MP3 playback, it can be operated with a manual operation button, for example, without activating a window.
[0098] in addition, the invention in this application is not limited to each above-mentioned operation gestalt, and in the range which does not deviate from the summary, many things are boiled and it can be deformed at an execution phase Moreover, each operation gestalt may be combined as suitably as possible, and may be carried out, and the effectiveness together put in that case is acquired. Furthermore, invention of various phases is included in each above-mentioned operation gestalt, and various invention may be extracted by the proper combination in two or more requirements for a configuration indicated. For example, when invention is extracted from all the requirements for a configuration shown in an operation gestalt by some requirements for a configuration being omitted, and carrying out the extracted invention, an abbreviation part is suitably compensated with a common knowledge common use technique.
[0099]
[Effect of the Invention] Button grabbing becomes possible also when the application to operate is not active according to this invention, as a full account was given above.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] The front view of the computer in the condition of having opened the display unit.
[Drawing 2] The front view of the computer in the condition of having closed the display unit.
[Drawing 3] Drawing showing the subdisplay 14, jog equipment 15, and volume-control equipment 16.
[Drawing 4] Drawing showing the detail of a manual operation button 13.
[Drawing 5] Drawing for explaining actuation of jog equipment 15, and the relation of an event.
[Drawing 6] Drawing showing the outline configuration of the note type personal computer concerning the gestalt of this operation.
[Drawing 7] It is the functional block diagram of the note type personal computer concerning the gestalt of 1 operation of this invention.
[Drawing 8] It is a flow chart for explaining actuation of the note type personal computer concerning the gestalt of operation of this invention.
[Drawing 9] It is drawing showing the title of the application program displayed on the subdisplay 14.
[Drawing 10] It is drawing showing the table which set up beforehand whether it would indicate by active.
[Drawing 11] It is drawing for explaining the relation between the active state of a window, and the object of a manual operation button.
[Drawing 12] It is drawing for explaining the relation between the active state of a window, and the object of a manual operation button.
[Drawing 13] It is drawing showing the flow of the event generated from a manual operation button.
[Drawing 14] It is the functional block diagram of the note type personal computer concerning the modification of this invention.
[Drawing 15] The flow chart for explaining actuation of the note type personal computer concerning the gestalt of operation of this invention.
[Description of Notations]
11 -- Body of a computer,
12 -- Display unit,
12a -- Display screen,
13 -- Manual operation button
13a -- Rewind button
13b -- Playback/pause button,
13c -- Earth switch
13d -- Fast forward button
14 -- Subdisplay (factice LCD),
14a -- Text display area
15 -- Jog equipment,
15a -- Projection,
16 -- Volume-control equipment,

20 -- Bus,
21 -- CPU,
22 -- BIOS ROM,
23 -- Main memory,
23 a--OS,
23b -- Control program
23c -- Application program,
24 -- Display controller,
25 -- Maine display,
26 -- Subdisplay,
27 -- Keyboard controller,
27a -- Keyboard,
28 -- CD/DVD player,
29 -- HDD,
30 -- Dc-battery,
31 -- Power supply section,
51 -- Application program selection detecting element,
52 -- Application program classification decision section,
53 -- The setting-out section for a manual operation button,
54 -- Window control section,
61 -- Application program starting detecting element,
62 -- Application program classification decision section,
63 -- The setting-out section for a manual operation button,
64 -- Window control section.

[Translation done.]

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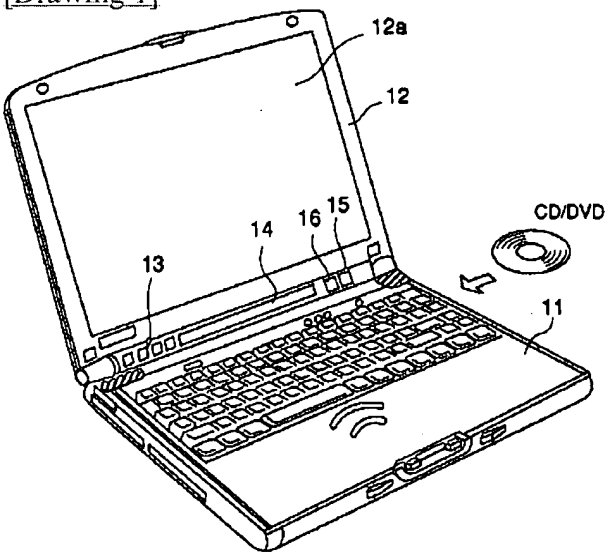
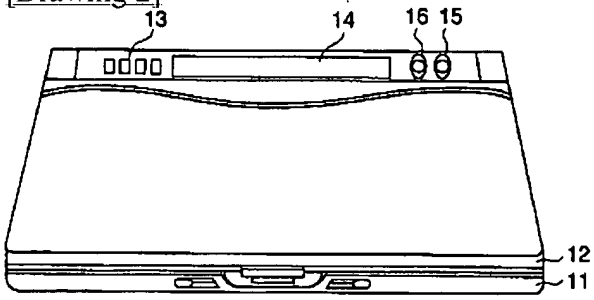
DRAWINGS

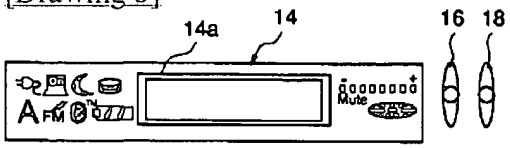
[Drawing 1]



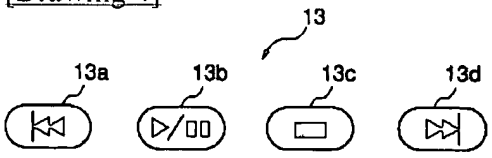
[Drawing 2]



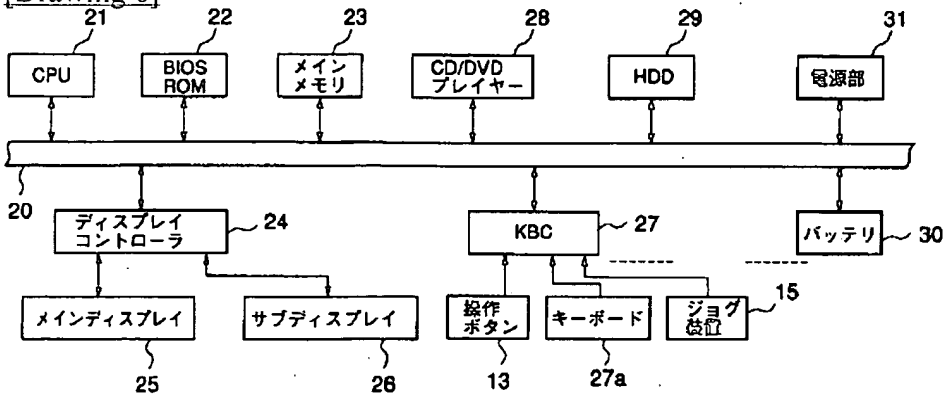
[Drawing 3]



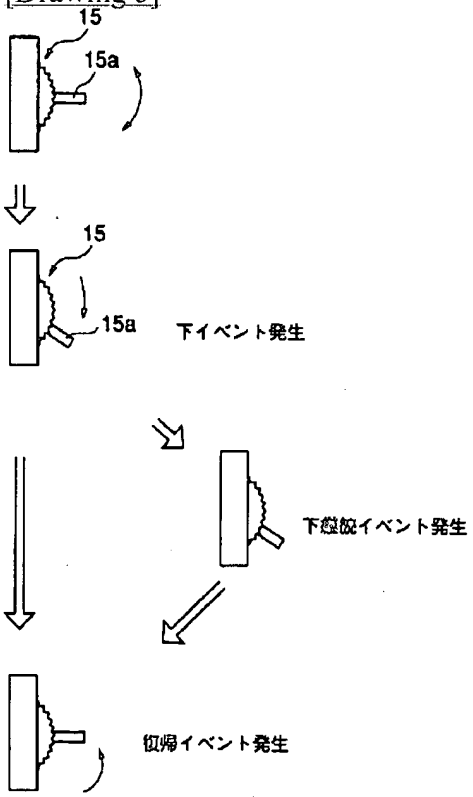
[Drawing 4]



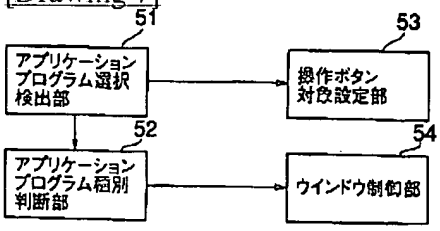
[Drawing 6]



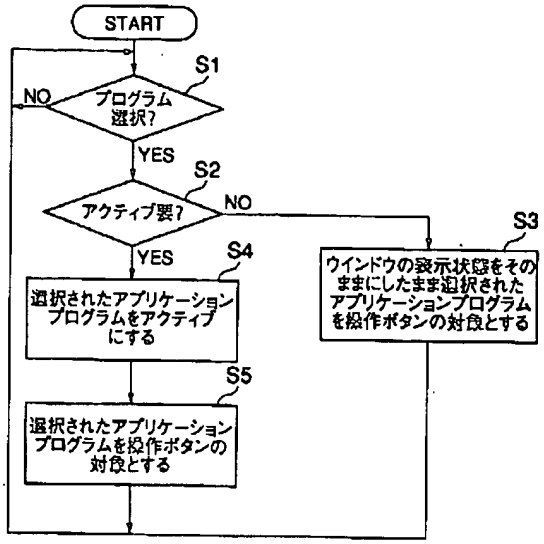
[Drawing 5]



[Drawing 7]



[Drawing 8]



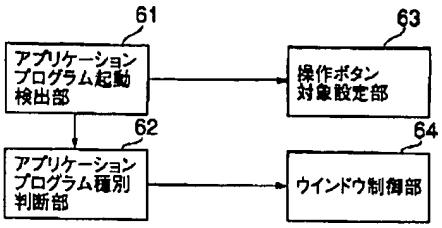
[Drawing 9]

図形	タイトル名	アプリケーションの機能
1	CD／DVD	・CDが装着されている場合にはCD再生用のアプリケーションを起動 ・BVDが装着されている場合にはDVD再生用のアプリケーションを起動
2	デジタルオーディオ	デジタルオーディオデータ再生用のアプリケーション
3	テレビ	テレビを見るためのアプリケーション
4	---------	ユーザによって指定されたアプリケーション
5	---------	
6	メール	メールアプリケーション
7	インターネット	インターネットブラウザ

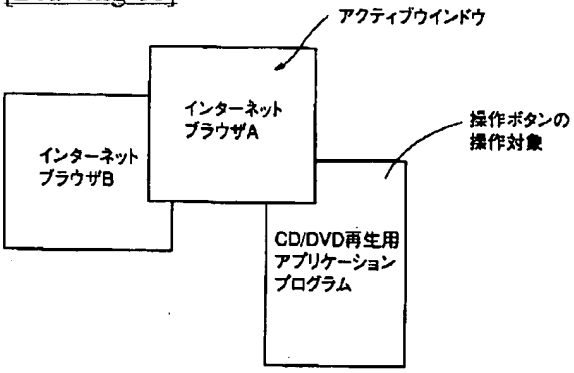
[Drawing 10]

タイトル名	アプリケーションプログラム	アクティビティ
CD/DVD	CD/DVD再生用アプリケーションプログラム	×
ディジタルオーディオ	ディジタルオーディオデータ再生用アプリケーションプログラム	×
テレビ	テレビを見るためのアプリケーションプログラム	○
メール	メールアプリケーション	○
インターネット	インターネットブラウザ	○

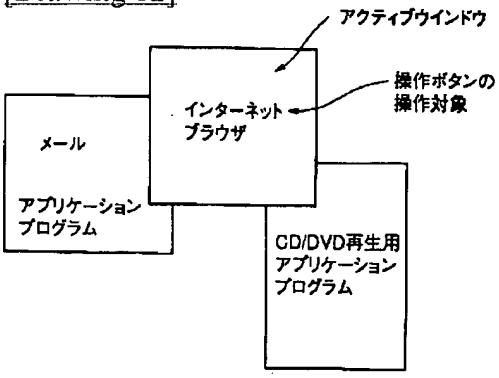
[Drawing 14]



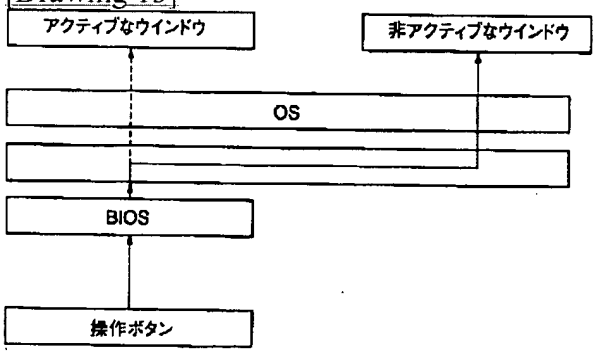
[Drawing 11]



[Drawing 12]



[Drawing 13]



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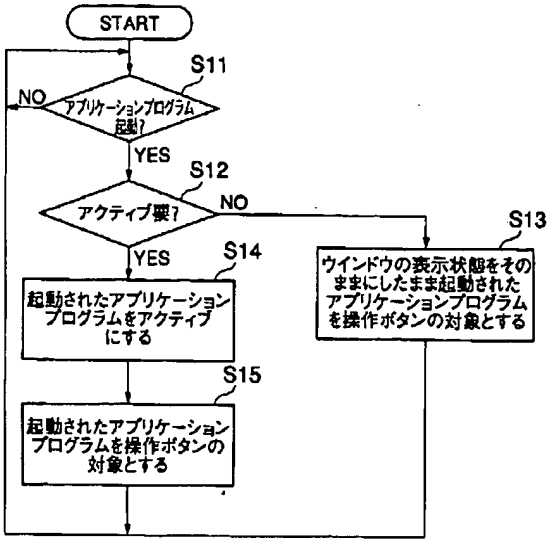

[Translation done.]